

Figure 1A

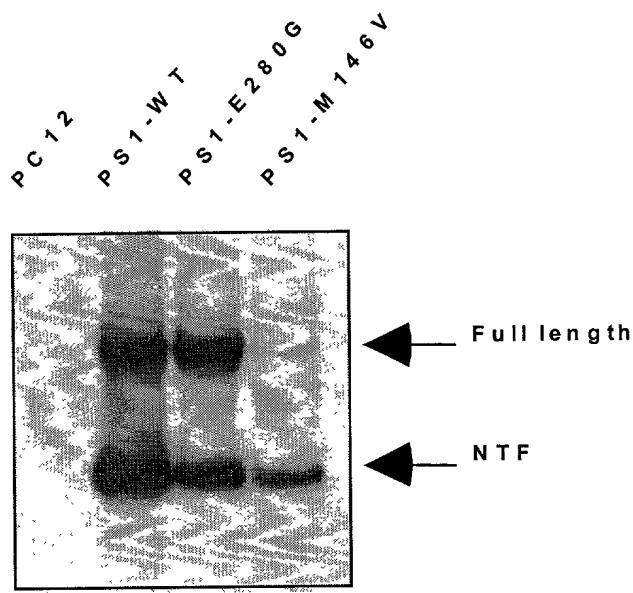


Figure 1B

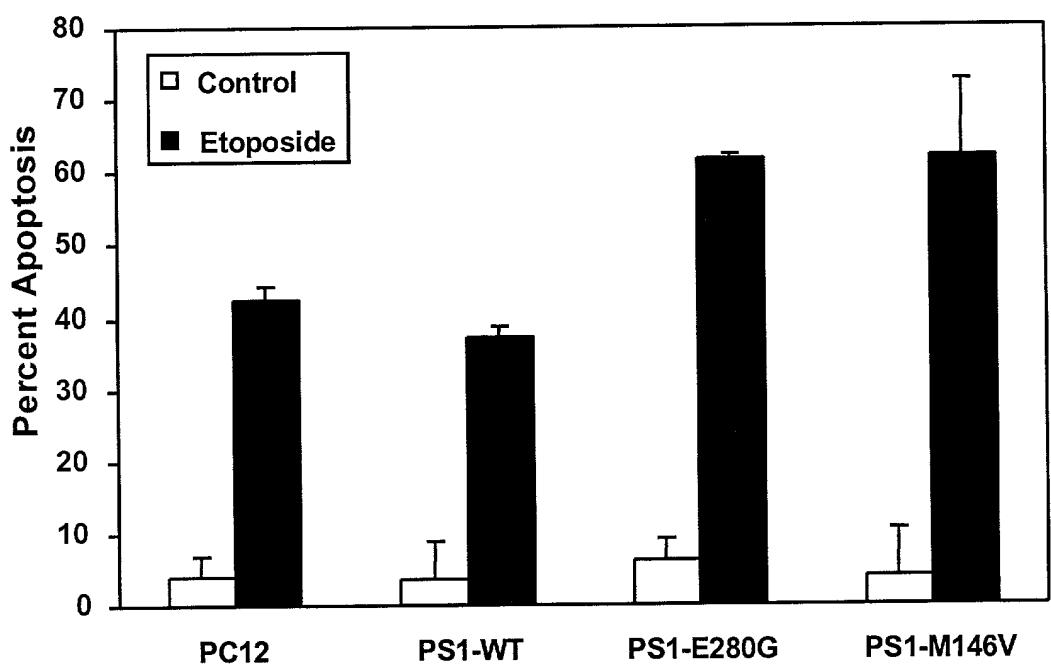


Figure 1C

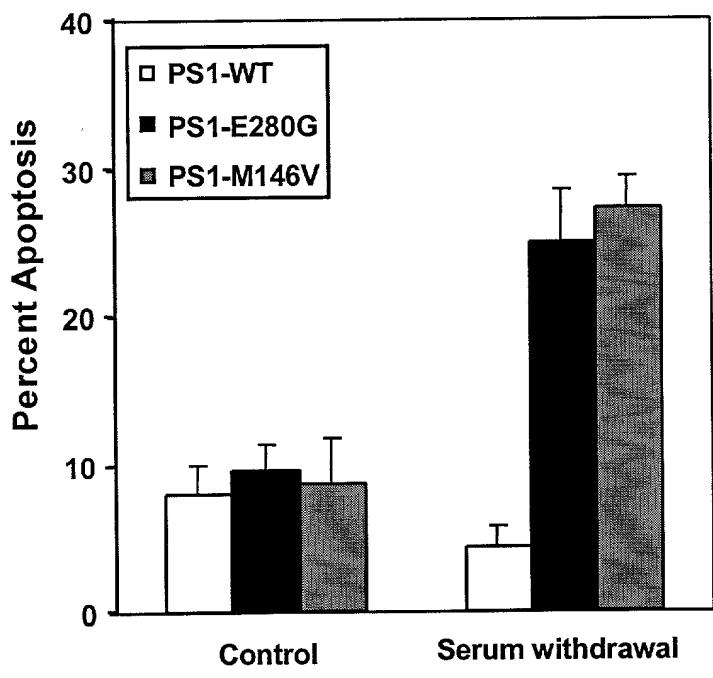


Figure 1D

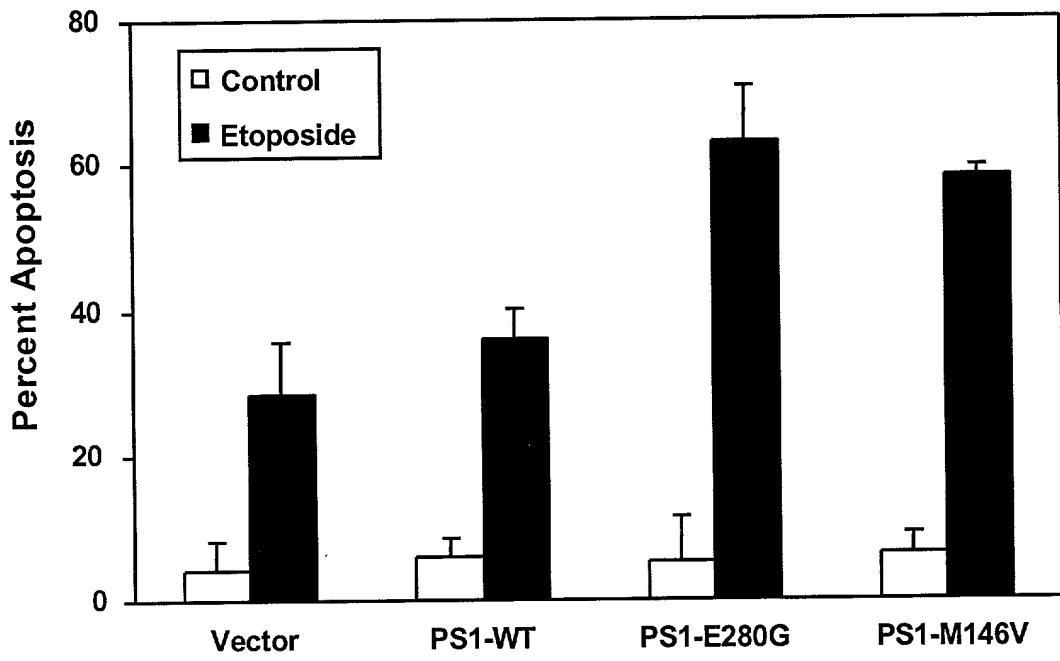


Figure 2A

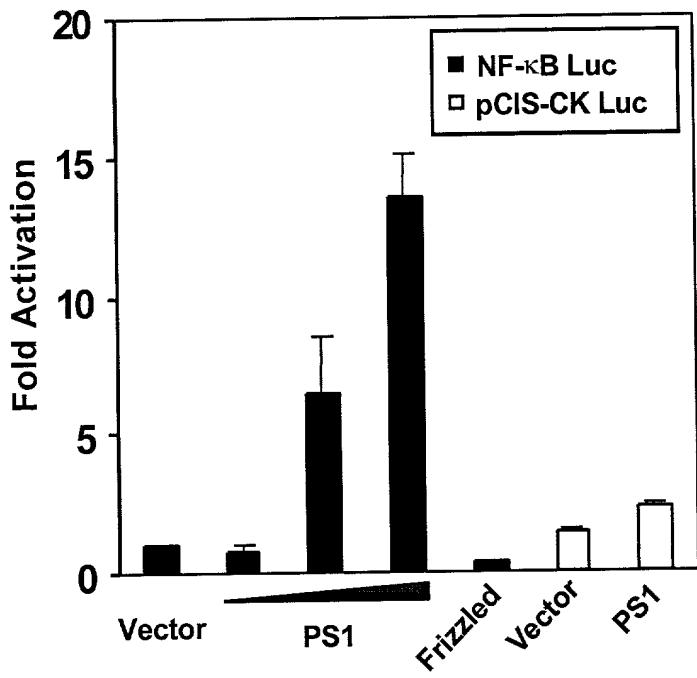


Figure 2B

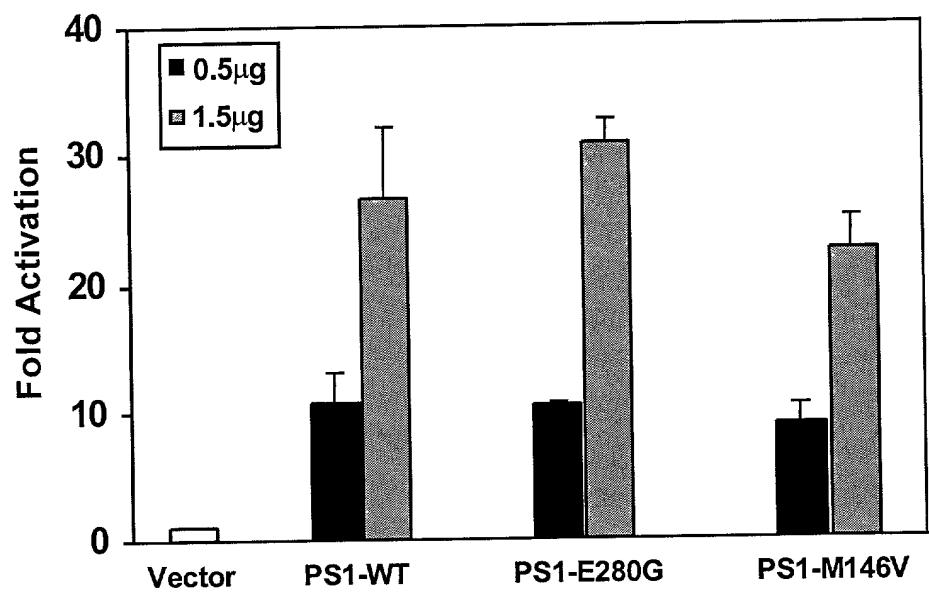


Figure 3A

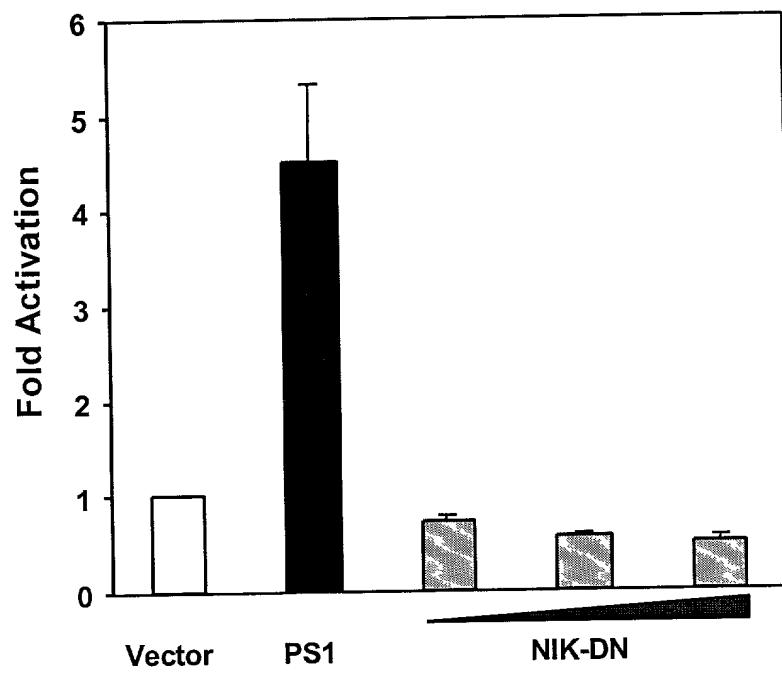


Figure 3B

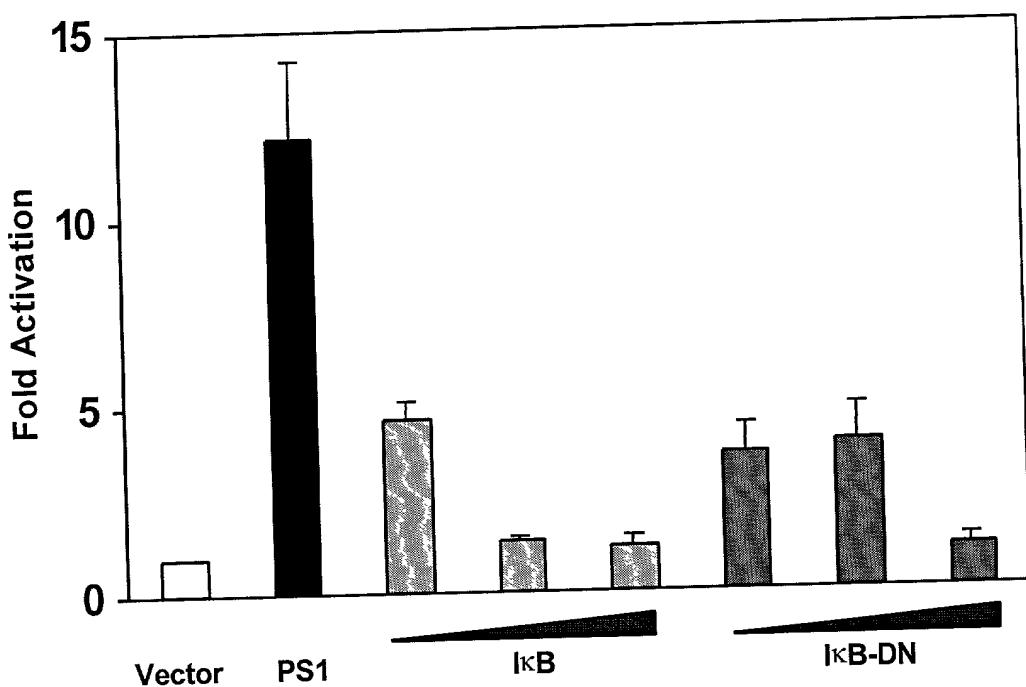


Figure 4A

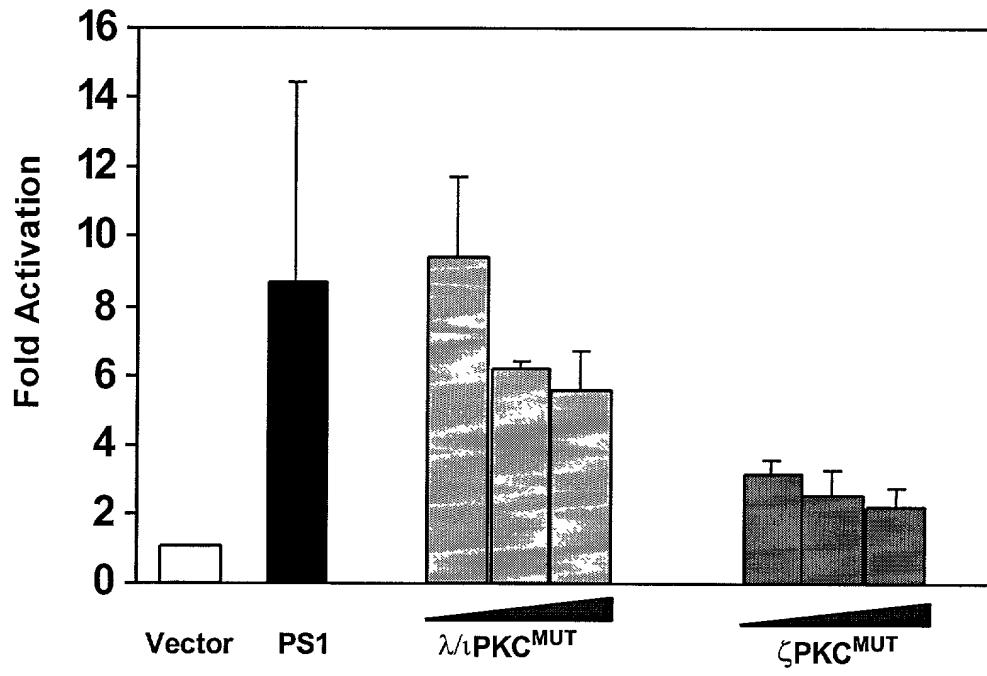


Figure 4B

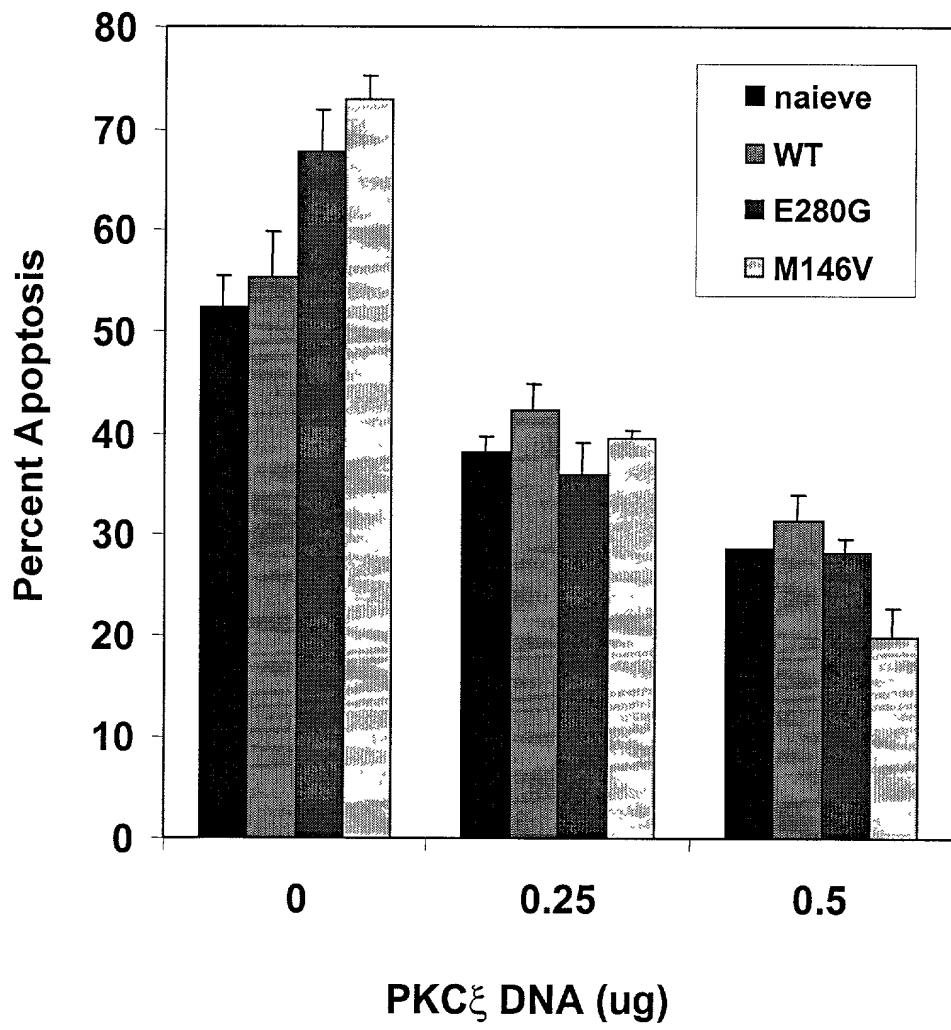


Figure 4C

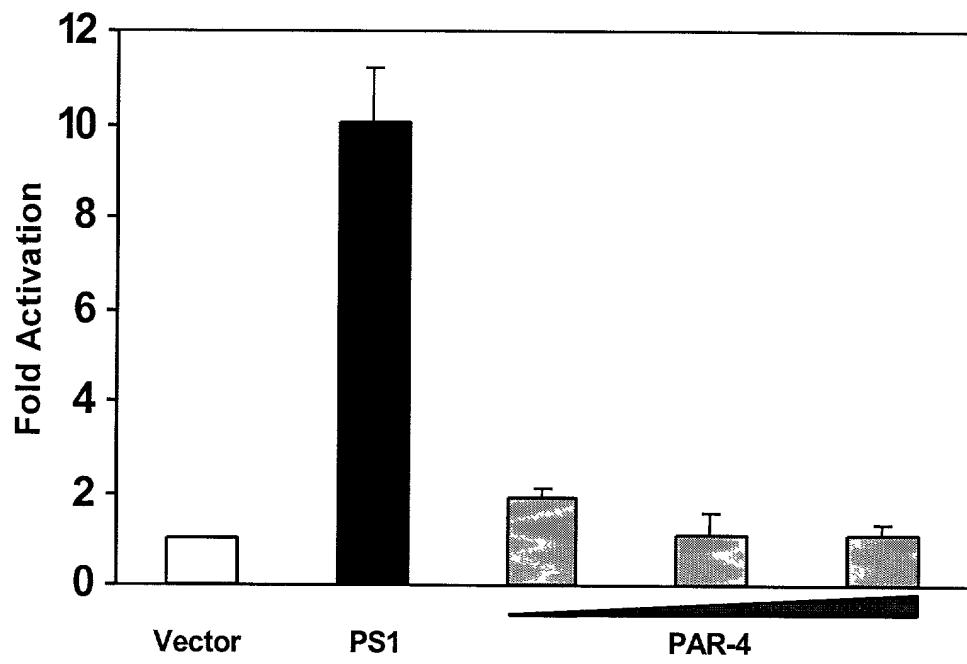


Figure 4D

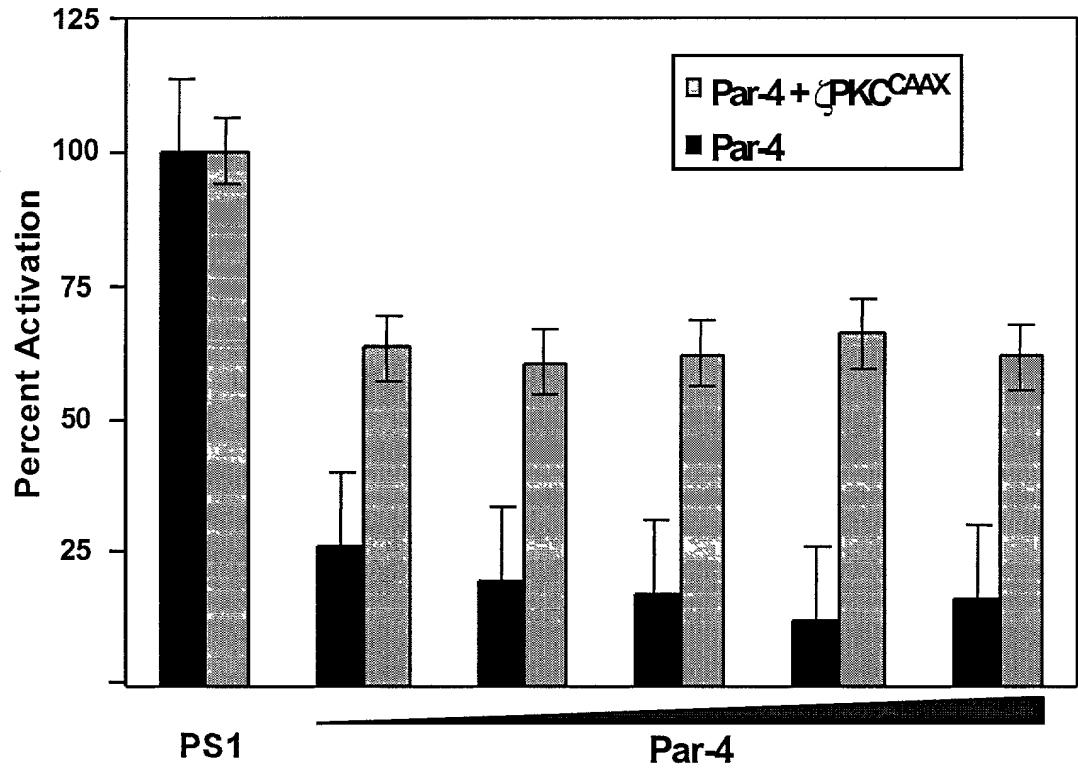


Figure 4E

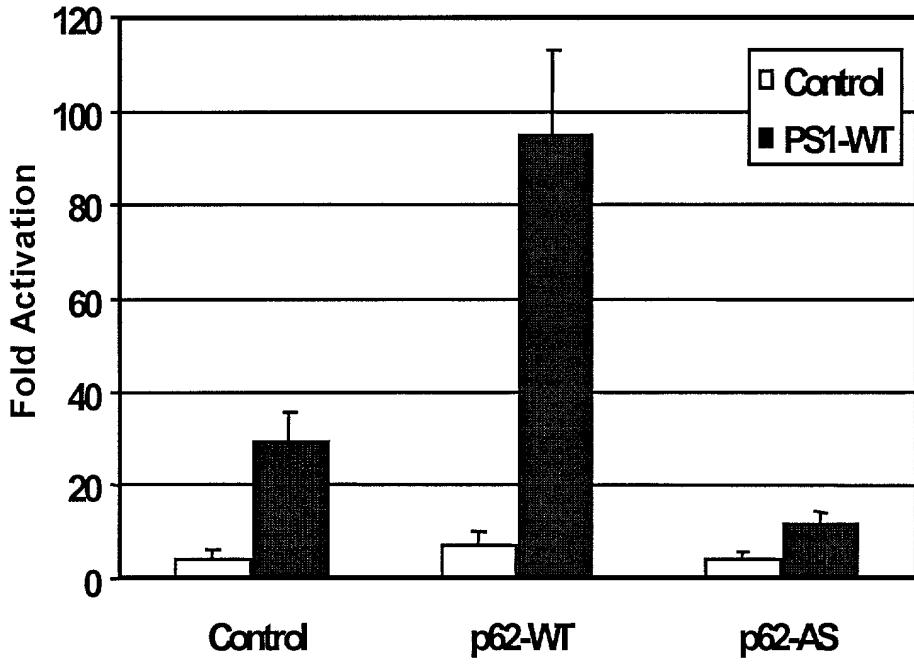


Figure 5A

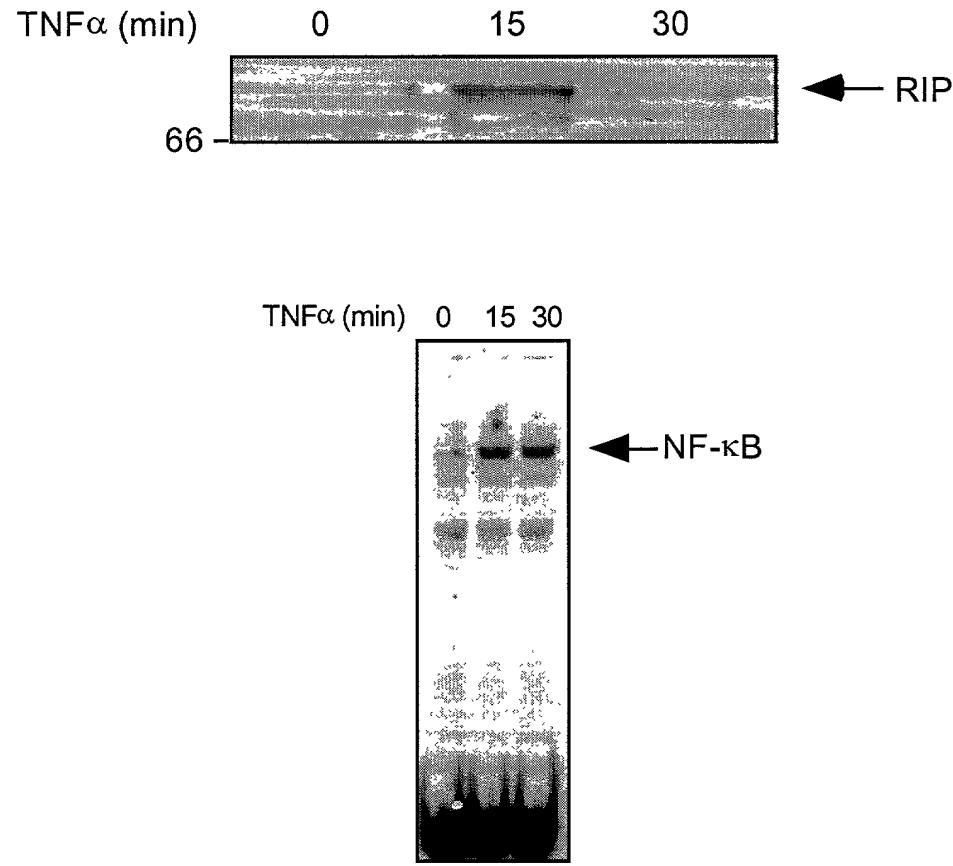


Figure 5B

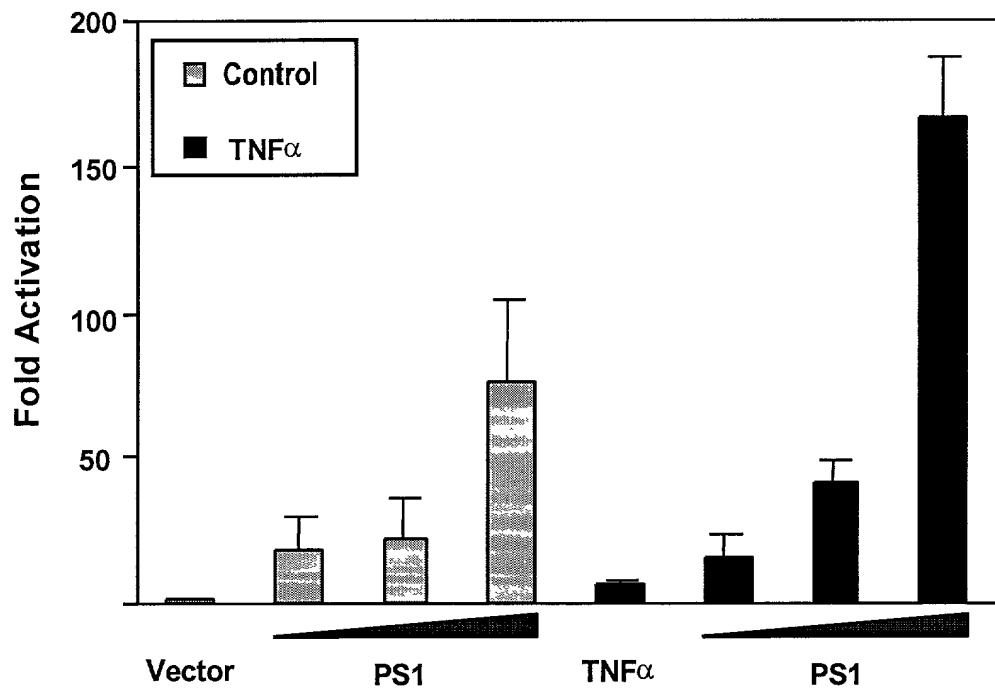


Figure 5C

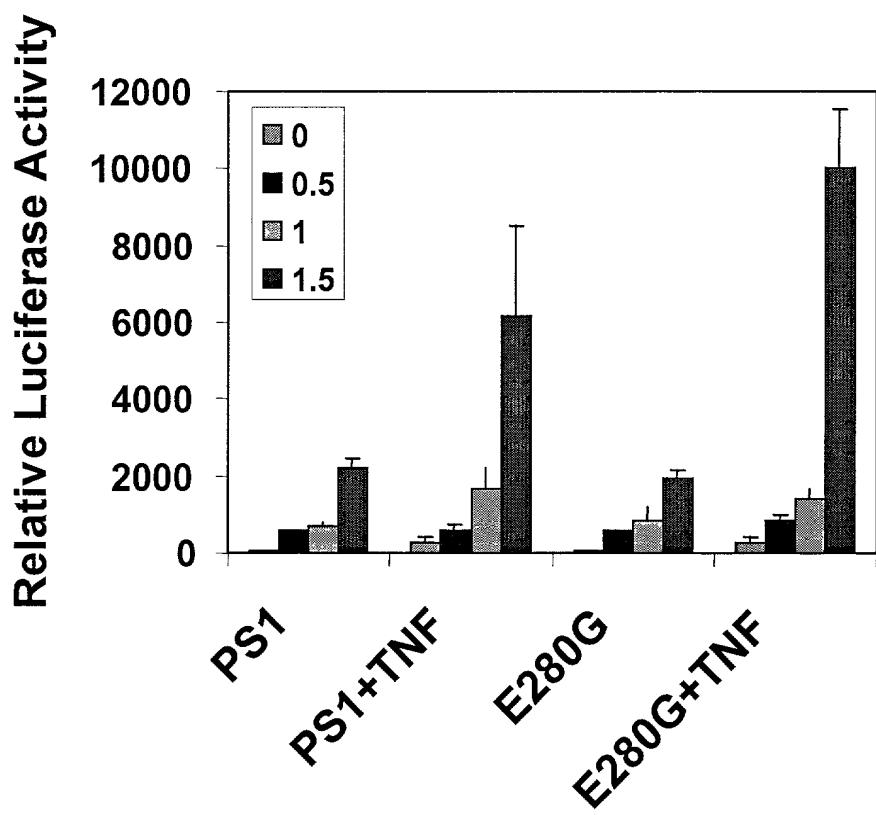


Figure 6A

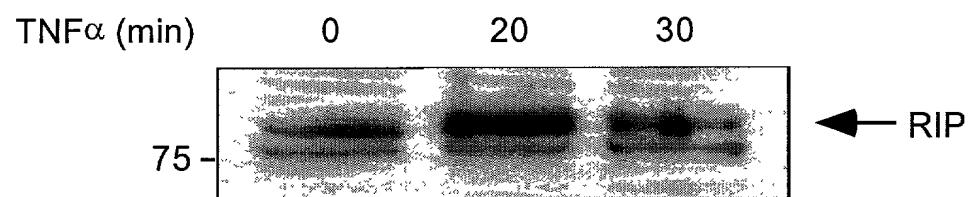


Figure 6B

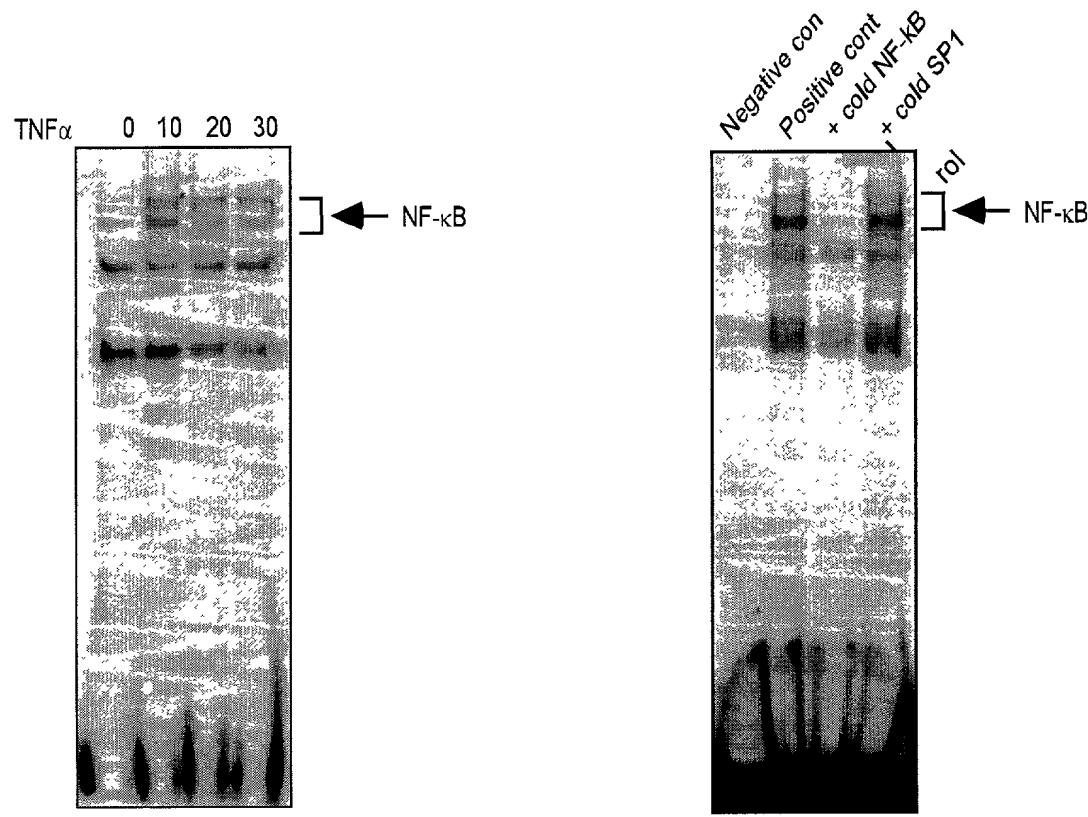


Figure 7A

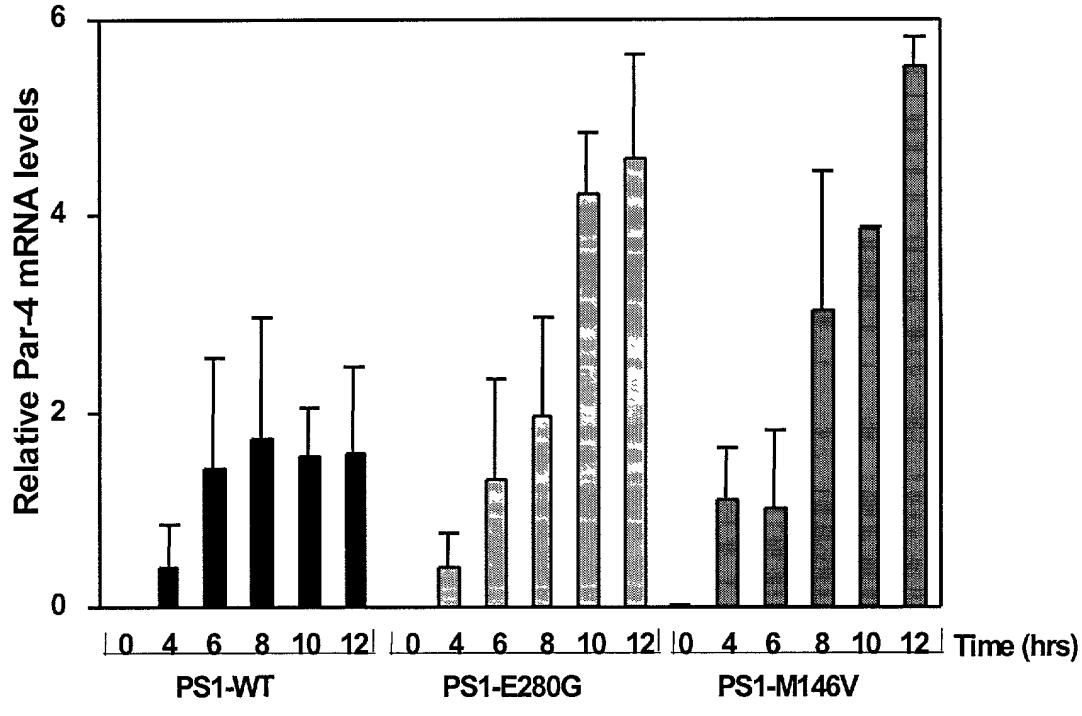


Figure 7B

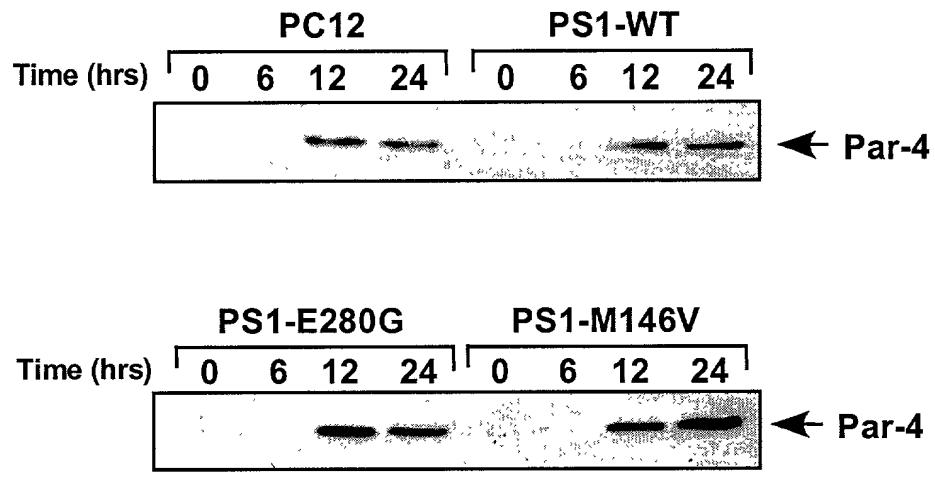


Figure 8

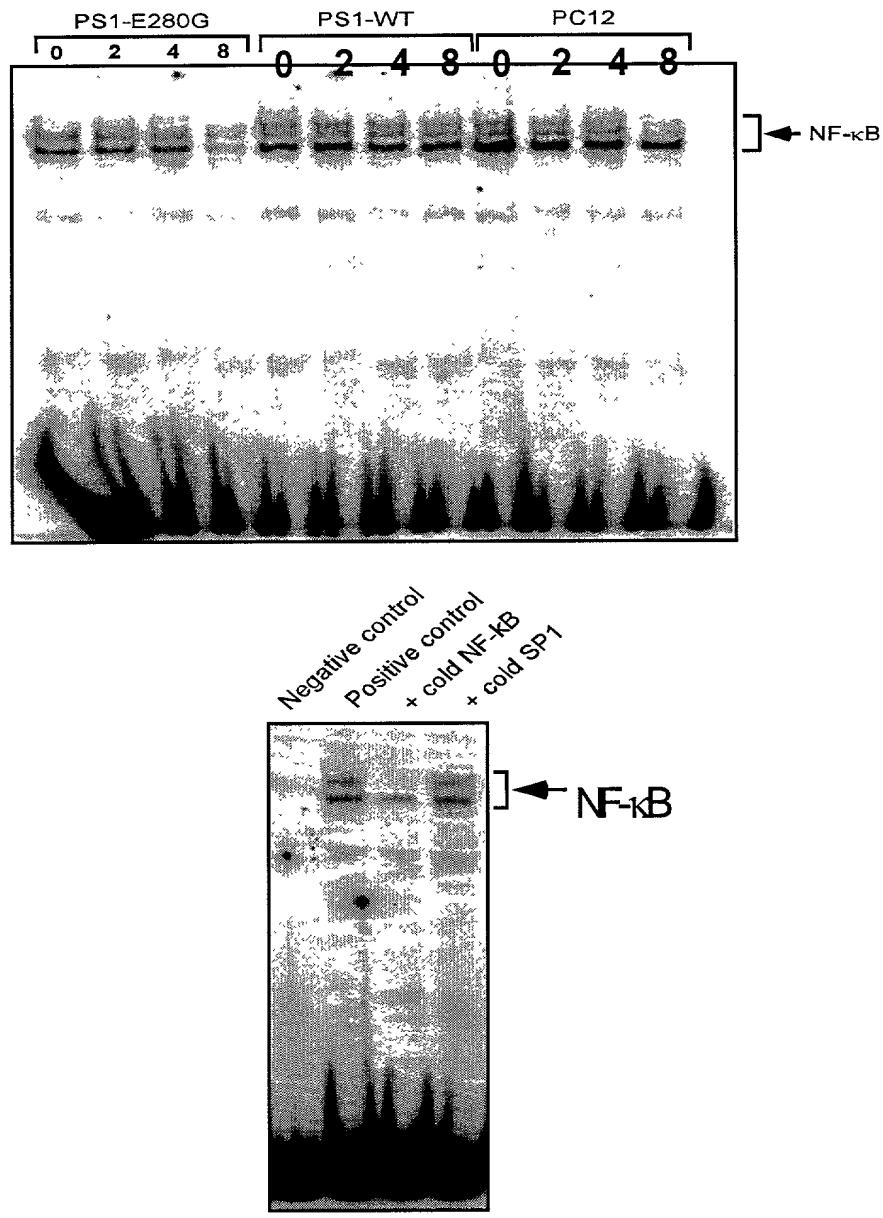


Figure 9A

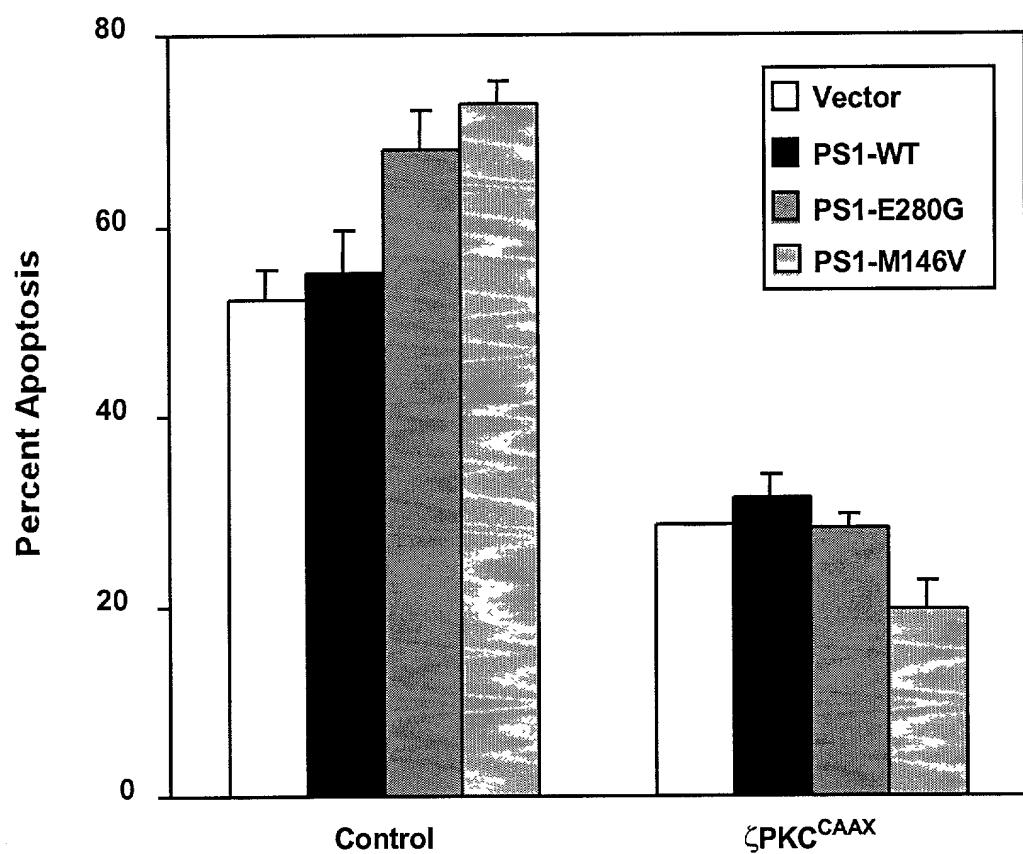


Figure 9B

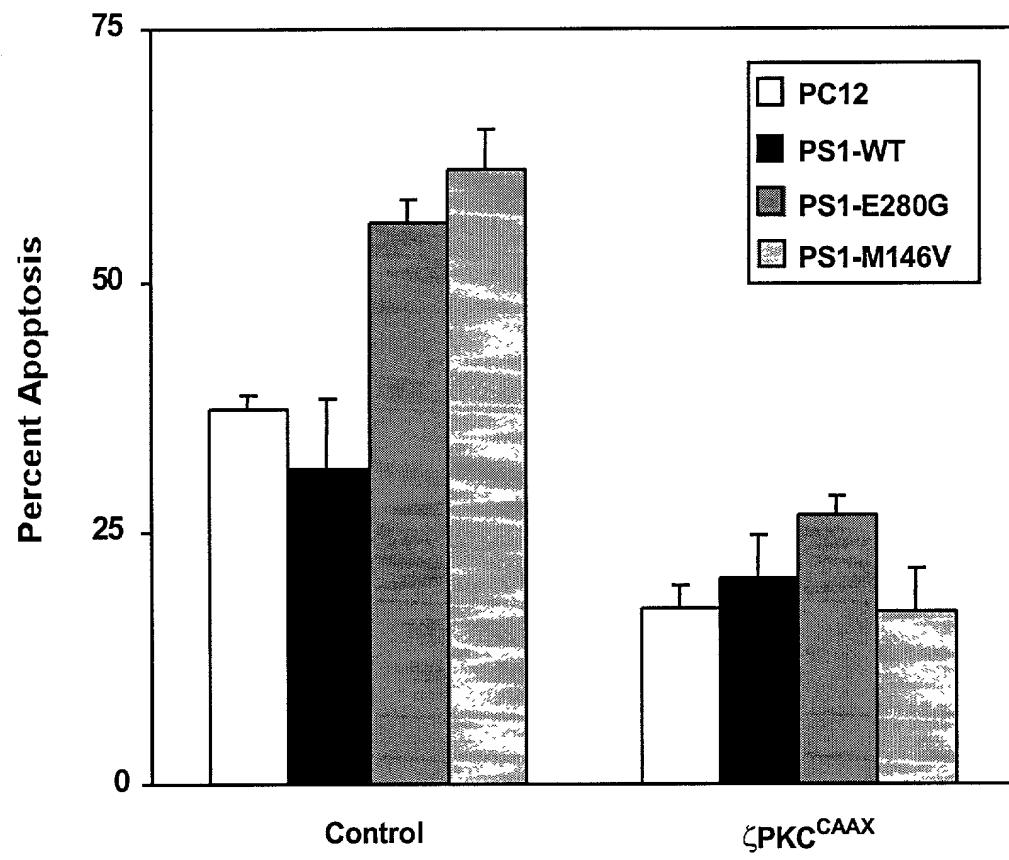


Figure 10

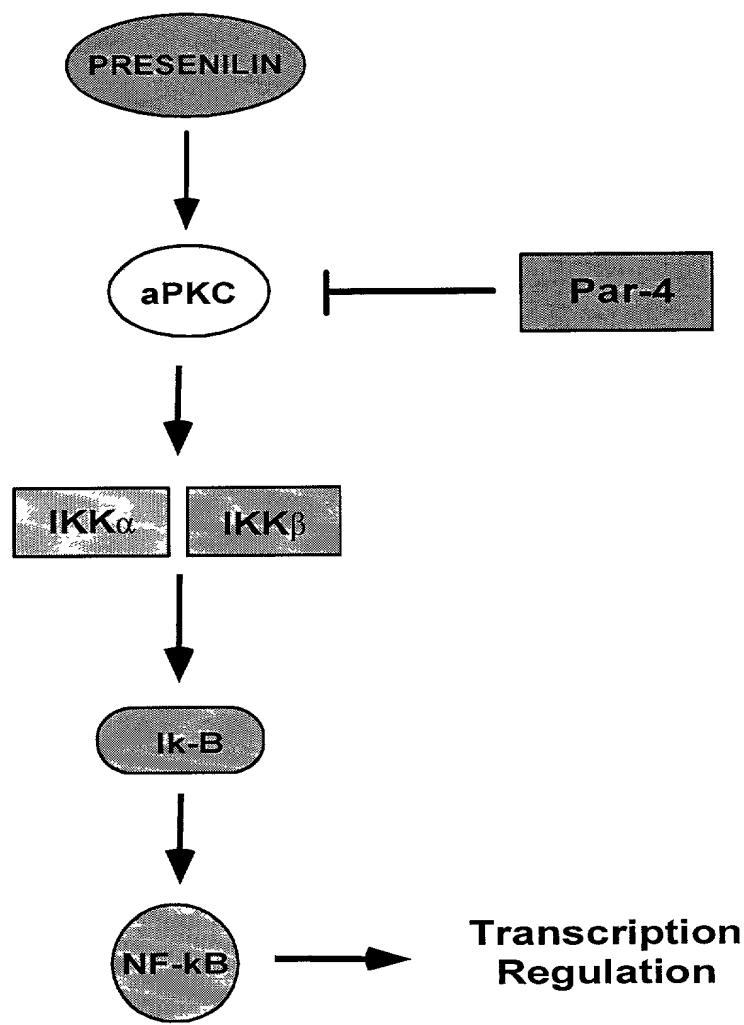


FIGURE 11A

ATGCGCGCCAAGCAGAACCCCCCGGGCCCCCCCCCAGGGAGGGGGCAGCAGCGACGCCGC
TGGGAAGCCCCCGGGCTCTGGGCACCCCGGCCGCCGCTGCCAACGAGCTAACAA
ACAACCTCCCAGGGCGGCCGCACCTGCCGTCCCCGGTCCCCGGGGCGTGAACCTGC
GCGGTGGCTCCGCCATGCTGACGCCGGCGCCCCCGGCCGCCGCCGGCGTCGGAGGA
CGAGCCCCCAGCCGCCTCTGCCTCGGCTGCACGCCGCCAGCGTGACGAGGAGGAGCCGG
ACGGCGTCCCAGAGAAGGGCAAGAGCTCGGCCAGTGCAGGAAGGCAAGGGCAGATC
GAGAAGAGGAAGCTGCAGGAGAACGGCGCTCCACCGCGTGGTCAACATCCCTGCCGCAGA
GTGCTTAGATGAGTACGAAGATGATGAAGCAGGGCAGAAAGAGCGGAAACGAGAAGATGCAA
TTACACAAACAGAACACTATTCAAATGAAGCTGTAACCTACTAGATCCAGGCAGTTCTAT
CTGCTACAGGAGGCCACCTAGAACAGTTCAAGGCAGATAAAAGCACAAACCAGTGTCTCTGA
AGAAGATGTCTCAAGTAGATATTCTCGAACAGATAGAACAGTGGGTTCCCTAGATATAACAGGG
ATGCAAATGTTCAAGGTACTCTGGTTCAAGTAGCACACTGGAAAAGAAAATTGAAGATCTT
GAAAAGGAAGTAGAACAGAAAGACAAGAAAACCTAACAGACTTGTGAGACTGATGCAAGATAA
AGAGGAAATGATTGGAAAACCTAACAGAACAGGAAAATAAAACTCTTTGAAAGTTGTGGGTCAAG
CTGACCCAGGTAG

FIGURE 11B

MATGGYRTSSGGGTTDWKAKRKMRAKNGAGGGSSDAAGKAGAGTAAAAANNNGGAAAAGV
GGVNCAVGSAMTRAARGRRSDAASASAARDDGVKGKSSGSARKGKGKRKRSTGVVNAAC
DYDDAGKRKRDATNTNAVNDGSSYRTVSGRYKSTTSVSDVSSRYSRTDRSGRYNRDANVSGT
VSSSTKKDKVVTRNRVRMDKGKDNRDDDKNKTKVVGTRMATGGYRTSSGGGTTDWKA
KRKMRAKNGAGGGSSDAAGKAGAGTAAAAANNNGGAAAAGGGVNCAVGSAMTRAARGRRD
AASASAARDDGVKGKSSGSARKGKGKRKRKR

FIGURE 12A

ATGACAGAGTTACCTGCACCGTTGCCTACTTCCAGAACATGCACAGATGTCTGAG
GACAACCACCTGAGCAATACTGTACGTAGCCAGAACATGACAATAGAGAACGGCAG
GAGCACAAACGACAGACGGAGCCTGGCCACCCCTGAGCCATTATCTAATGGACGA
CCCCAGGGTAACCTCCGGCAGGTGGTGGAGCAAGATGAGGAAGAACATGAGGAG
CTGACATTGAAATATGGCGCCAAGCATGTGATCATGCTTTGTCCCTGTGACT
CTCTGCATGGTGGTGGTCGTGGCTACCATTAAGTCAGTCAGCTTTATACCGG
AAGGATGGGCAGCTAATCTATACCCATTACAGAACATACCGAGACTGTGGGC
CAGAGAGCCCTGCACTCAATTCTGAATGCTGCCATCATGATCAGTGTCAATTGTT
GTCATGACTATCCTCCTGGTGGTCTGTATAAATACAGGTGCTATAAGGTATC
CATGCCTGGCTTATTATATCATCTATTGTTGCTGTTCTTTTCATTCAATT
TACTTGGGGGAAGTGTAAAACCTATAACGTTGCTGTGGACTACATTACTGTT
GCACTCCTGATCTGGAATTGGTGTGGTGGAAATGATTTCCATTCACTGGAAA
GGTCCACTTCGACTCCAGCAGGCATATCTCATTATGATTAGTGCCTCATGGCC
CTGGTGTATCAAGTACCTCCCTGAATGGACTGCCTGGCTCATCTGGCTGTG
ATTCAGTATATGATTTAGTGGCTGTTGTCCGAAAGGTCCACTCGTATG
CTGGTGAACAGCTCAGGAGAGAAATGAAACGCTTTCCAGCTCTATTAC
TCCTCAACAATGGTGTGGTGAATATGGCAGAACAGGAGACCCGGAAGCTCAA
AGGAGAGTATCCAAAAATTCCAAGTATAATGCAGAACAGAACAGAAAGGGAGTCA
CAAGACACTGTGCAGAGAACATGATGATGGCGGGTTCACTGAGGAATGGGAAGCC
CAGAGGGACAGTCATCTAGGGCCTCATCGCTCTACACCTGAGTCACGAGCTGCT
GTCCAGGAACCTCCAGCAGTATCCTCGCTGGTGAAGACCCAGAGGAAGGGGA
GTAAAACCTGGATTGGGAGATTCATTTCAGTGTCTGGTTGGTAAAGCC
TCAGCAACAGCCAGTGGAGACTGGAACACAACCCTAGCCTGTTCTAGGCCATA
TTAATTGGTTGTGCCTACATTATTACTCCTTGCCATTTCAGAAAGCATTG
CCAGCTCTCCAATCTCCATCACCTTGGCTGTTCTACTTGCCACAGAT
TATCTGTACAGCCTTATGGACCAATTAGCATTCCATCAATTATATCTAG

FIGURE 12B

MTEL PAPLSYFQNAQMSEDN HLSNTVRSQNDNRERQEHNDRRSLGHPEPLSNGRPQGNSRQV
VEQDEEEDEELTLKYGAKH VIMLFVPVTLCM VVVVATIKSVSFYTRKDQQLIYTPTEDTET
VGQRALHSILNAAIMISIVVM TILLVVLYKYRCYKVIHAWLIISLLLFFF SFIYLGEVF
KTYNVAVDYITVALLIWNFGVVGMI SIHWKGPLRLQQAYLIMISALMALVFIKYLPEWTAWL
ILAVISVYDLVAVLCPKGPLRMLVETAQERNETLFPALIYSSTMVWL VNMAEGDPEAQRRVS
KNSK YNAESTERESQDTVAEND DGGFSEEW EAQRDSHLGPHRSTPESRAAVQELSSSI LAGE
DPEERGVKLGLGDFIFYSVLVGKASATASGDWNTTIACFVAILIGLC LTLLAIFKKALPA
LPISITFGLVFYFATDYLVQPFMDQLAFHQFYI

FIGURE 13A

ATGCTCACATTCATGGCCTCTGACAGCGAGGAAGAAGTGTGATGAGCGGACGTCCCTAAT
GTCGGCCGAGAGCCCCACGCCGCCTGCCAGGAGGGCAGGCAGGGCCAGAGGATGGAG
AGAACACTGCCAGTGGAGAACGCCAGGAGAACGAGGAGGACGGTGAGGAGGACCTGACC
TATGTCCTGAGTGGGGTCCCAGGCGCCAGGCCTGGAGGAAGAGCTGACCCCAAATA
CGGAGCGAACGTGATCATGCTGTTGCTCACTCTGTGCATGATCGTGGTAG
CCACCATCAAGTCTGTGCCTTACACAGAGAACGACAGCTCATCTACACGACATT
ACTGAGGACACACCCTCGGTGGGCCAGCGCCTCTCAACTCCGTGCTGAACACCC
CATCATGATCAGCGTCATCGTGGTTATGACCATCTCTGGTGGCTCTACAAGTACCG
CTGCTACA
AGTCATCCATGGCTGGTGATCATGTCCTCACTGATGCTGTTCCCTTCACCTATATC
TACCTGGGAAGTGTCAAGACCTACAATGTGGCCATGGACTACCC
ACCCCTTTGCTGAC
TGTCTGGAACCTCGGGCAGTGGCATGGTGTGCATCCACTGGAAGGG
CCCTCTGGTGTGC
AGCAGGCCTACCTCATCATGATCAGTGCCTCATGGCCTAGTGT
CATCAAGTACCTCCA
GAGTGGTCCCGTGGTCATCCTGGCGCCATCTGT
GTATGATCTCGTGGCTGTGCTGTG
TCCCAAAGGCCTCTGAGAATGCTGGTAGAAACTGCCAGGAGAGAAC
ATGAGCCATATTCC
CTGCCCTGATATACTCATGCCATGGTGTGGACGGTGGCATGGCG
AAGCTGGACCCCTCC
TCTCAGGGTGCCTCCAGCTCCCTACGACCCGGAGATGG
AAGAAGACTCCTATGACAGTT
TGGGAGCCTCATACCCGAAGTCTTGAGCCTCC
TTGACTGGCTACCCAGGGAGGGCT
GGAGGAAGAGGAGGAAAGGGCGTGAAGCTTGGCCTGGGACT
TCATCTTACAGTGTG
TGGTGGCAAGGCGGCTGCCACGGCAGCGGGACT
GGAATACCACGCTGGCTGCTCGT
GCCATCCTCATGGCTTGTCTGACCC
CTGCTGCTGTCAAGAAGGC
CTGCC
CGCCCTCCCCATCTCATCACGTC
GGGCTCATCTTACT
TCCACGGACA
ACCTGGTGC
GCCGTTCATGGACACC
CTGGCCTCC
CATCAGCT
CTACATCTGA

FIGURE 13B

MLTFMASDSEEEVCDERTSLMSAESPTPRSCQEGRQGPEDGENTAQWRSQENEEDGEEDPDR
YVCSPGVRPPGLEEEELTLKYGAKHIVMLFVPVTLCMIVVVATIKSVRFYTEKNGQLIYTTF
TEDTPSVGQRLLNSVLNTLIMISIVVMTIFLVVLYKYRCYKFIHGWLIMSSLMLFLFTYI
YLGEVLKTYNVAMDYPTELLTVWNFGAVGMVICHWKGPLVLQQAYLIMISALMALVFIKYLPE
EWSAWVILGAI SVYDLVAVLCPKGPLRMLVETAQERNEPIFPALIYSSAMVWTVGMAKLDPS
SQGALQLPYDPEMEEDSYDSFGEPSYPEVFEPLTGYPGEELEEEEERGVKLGLGDFIFYSV
LVGKAAATGSGDWNTTLACFVAILIGLCLLLLAVFKKALPALPISITFGLIFYFSTDNLV
RPFMDTLASHQLYI

FIGURE 14

GAATTGGCACGAGGGCGCCGCTGGCTCCCTCCGCCCTGGCTCCCTCCCTCCCTC
CCTCCTTCTTCTCCCTCCCTGCCTGGGATTGCCTGGAGCTCCGACCGCGAGTTGCCGC
GGCACTTCCGCGGGCGGAAGAGCGCGCCAGCTTCGGCACACCTGGAGCCGGATCCCAGC
CCTACGCCTCGTCCCCCTACAAGCTCCTCCAAGCCCCGCCGGCTGCTGTGGGAGCGGCGGCCGTC
CCTCTCCTGGAGGTCGTCTCCTGGCATCCTCGGGGCCGCAGGAAGGAAGAGGAGGCAGCGGCCG
GAGCCCTGGTGGGCGGCCTGAGGTGAGAGCCGACCAGCCCTTGGGAAT

FIGURE 15

GAATTCCAGAAGGCAGGAACAGAGAAAGTAGAAGGAAAGTCTTATAAAAGAAAGAGAATAGGCC
AGGCACGGTGGCTACGCCTCTAACCCCAGCATTTGGGAGGCTGAGGCAGGTGGATCATGAGG
TCAGGAGTCAAGACCAACCTGACCAACATGGTAAGCCCCGCTCTACTAAAAATACAAAAAT
TAACCAGGCCTGTGCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAA
CCCGAAAGGTGAAGGTTGCTGTGAGCCTAGATCAGGCCACTGCACACTGACCTGGCGACAGAG
CGAGACTCCATGTCAGAAGAAAAGAAAGAGGATAAGAAAATTTCCTAAGTGAAGGCAGATAGC
TGATTAAAAGGGTCCACTGACTGCATAACATAATAATGATAAAAGACCAAATCAGAGCATATCT
TCAAGATATTCAGAGGATCTAAGTAAGAAGATCCAAAATTGAGACAGAAAATACAATGCA
ATCAGAATGCCACTGGTCTTCTAACACAGCAACTCTGAAACTAGATGATAATAAGCAATGCC
TCAAAATTATGAAGGAAAATGCTTCTAACCTAGAGTTCTATGCTCCACAAACTATTAAATCAA
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TCAGAATATACTGAGGATATACTCTGCTAAAATGAAGGGGAGAAACAAAAAGAGAAAAGTATGC
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TGTAATCCCAGCACTTGGGAGGCCAAGCAGGCTGGTGCCTGAGCTCAGAAGTTCGAGACCA
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CATGTGCCTGTATTCCCAGCTACTCTGGAGGCTGATGCAGGAGAATTGCTGAACCCAGGAGGC
GGAGGTTGCAGTGAAGCAAGACTGCCACTGCACACAGCCTCACCAACAGAGCGAGACTCCG
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AGGCAAGTTTAACTGCAGAAAATGGTAAAGACAAAAGGTATAGTTGTGCAACAAGGAAAAC
AGTTGTAAAAAAAGAAATGCAATCATATACACCACATGACTCAGCTATGAACAGTATTGTA
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TGTTAGAGGATGAATTGCATATGTCAGAAATACCTGCATTGAAGGCAAAATGGCTACTCCC
AATACACTAGCTATCCATACATATAATAACACTTCCTCAAAATCATTAAGACTAACATCTAG
GTTCACTCTGACATATTAAATGAATCTGTTTGTGAGCATTATCATCATATTCACTTAT
TATTAAGGGCAAGTGAGTCCTAAAATTGGTATTAGGCTAACTCAGAGGTGCTCAACCGG
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ATCCAGCCCCAAATGTAACAGTGCTGAGGTTGAGAAACCAAGCTCCAAGTCTTGAGGATTATT
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GAATGGTAAAGACAAAAGGTATAATAATGATAATAACAAAACACAGAGCTTGTACCTCA
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ACCAAGGACTTTAACGCCCCTAGAAGGGACTATGTTACTGAGTCCTCCTCGAATCAAGCACA
TTTATGTGCAGTGTAGTCTTAAGACAGCTAAATATAATGTAATTGGGAGGCTGAGAGCAG
GAGAATTGCTGAACTCAGGAGGCAGGTTGCAGTGAGCTGAGATCCGCCACTGCACTCCAG
CCTGGCGACAGAGCGAGACTCCGCCTCAAAAAAAAAAAATGTAATTGGTCTGATTATAG
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GAATGTGAATACGTTAATGTCCTCCAGGAGAAAAGTCCTCTGATAAGTTACAAAGCATAT
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GCTCTGATCCAGAAATTTCAGATGACTGCATCAGAGGATAAGCCTCTGGCATGTTAATAATGA
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CTGCTAGCCAGGAATGTGCCGTCTAACCTCGCAGGCCGCGGGAGCGCGCGGGCGCTGT
GGTCTGCCGCGGGAGCGGGCAGAGGACGGCTGGCGCAGGGCAGGCTGCAAGCGCGGGCG
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CCGCCCCCTGGCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTGTCTGGATTG
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TTCGGCACACCTGGAGCCGGATCCCAGCCCTACGCCCTCGTCCCTACAAGCTCCTCAAGGA
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CGAGAAGATGCGGCCAAGCAGAACCCCCCGGGCCGGGGGGGGGGGGGGGGGGGGGGGGGG
GCCGCTGGGAAGCCCCCGGGGGCTCTGGGCACCCCGGGCG